

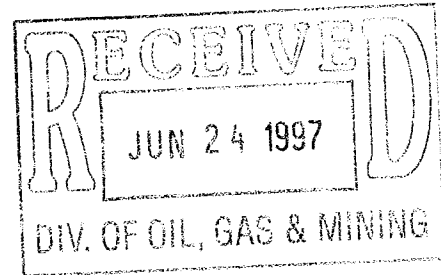
**Petroglyph Operating Co., Inc.**

**P.O. Box 1839**

**Hutchinson, KS 67504-1839**

June 20, 1997

Utah Division of Oil, Gas, & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL #30-11  
NE/SW SEC. 30, T5S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO. BIA 14-20-H62-3519  
UTE TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone # (801) 789-4120  
Fax # (801) 789-1420

Sincerely,

Ed Trotter  
Agent

**Petroglyph Operating Co., Inc.**

Attachments

/EHT/dmt

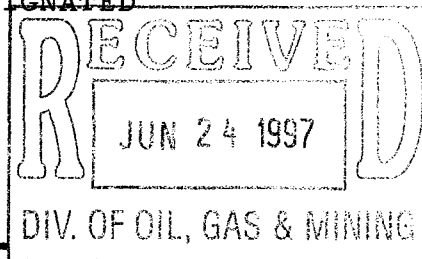
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3519
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE INDIAN TRIBE
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P.O. BOX 607, ROOSEVELT, UTAH 84066		8. FARM OR LEASE NAME, WELL NO. UTE TRIBAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 525' 1721' FSL & 625' 2274' FWL NE/SW <b>CONFIDENTIAL</b> At proposed prod. zone		9. AM WELL NO. #30-11
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 21.3 MILES SOUTHWEST OF MYTON, UTAH		10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1721'	16. NO. OF ACRES IN LEASE 640	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 30, T5S, R3W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6074'	19. PROPOSED DEPTH 6074'	12. COUNTY OR PARISH DUCHESNE
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6677.0' GRADED GROUND		13. STATE UTAH
22. APPROX. DATE WORK WILL START* June 1997		

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub>
7 7/8	5 1/2	15.5#	6074'	+ 1/4 #/sx celloflake.
				50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONE OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah  
Ute Tribe, Fort Duchesne, Utah**CONFIDENTIAL**

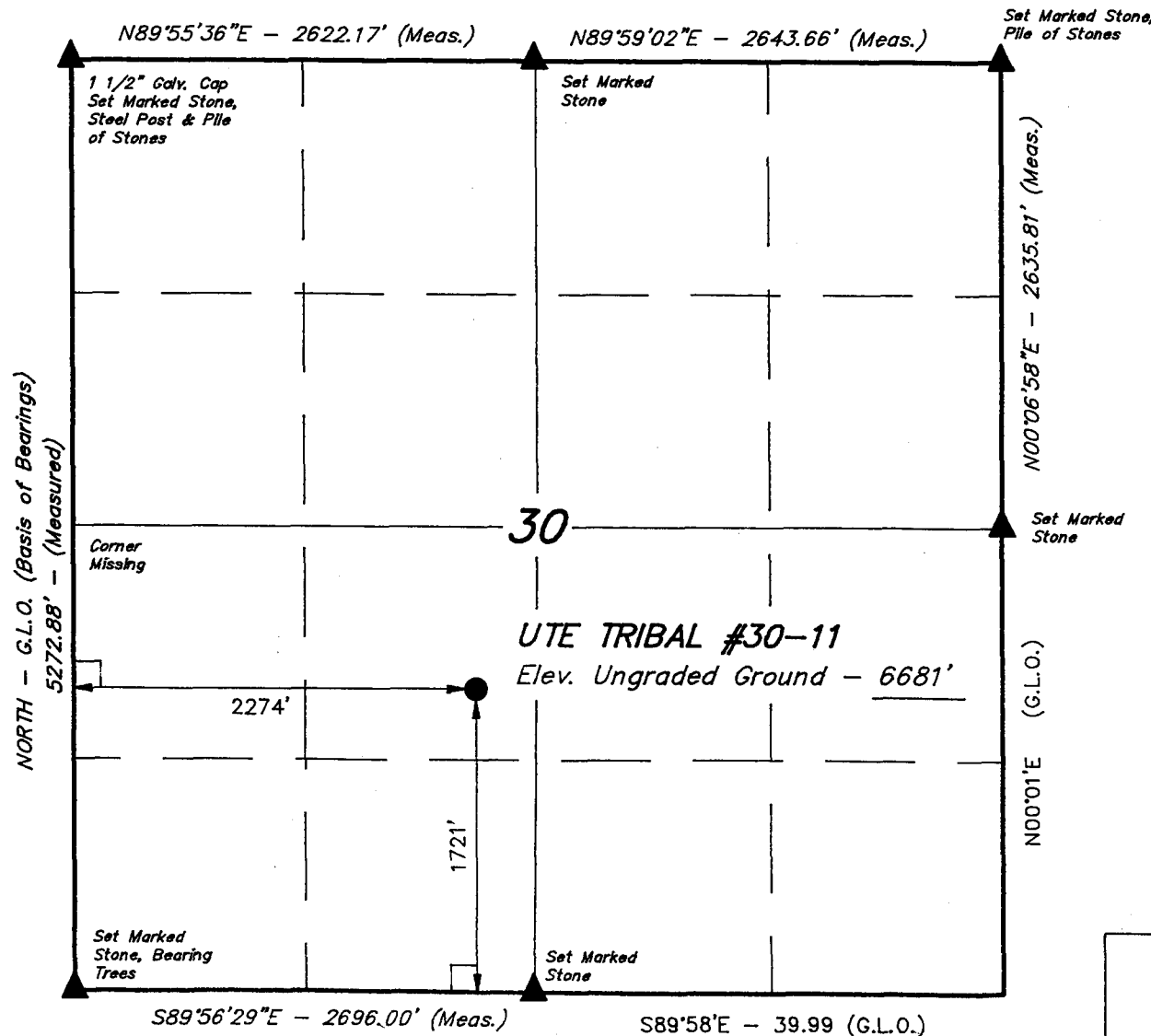
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Ed L. J. [Signature] TITLE AGENT FOR PETROGLYPH DATE 6-20-97  
(This space for Federal or State office use)PERMIT NO. 43-013-31907 APPROVAL DATE \_\_\_\_\_Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:APPROVED BY John R. Baya TITLE Petroleum Engineer DATE 7/11/97  
\*See Instructions On Reverse Side

**T5S, R3W, U.S.B.&M.**

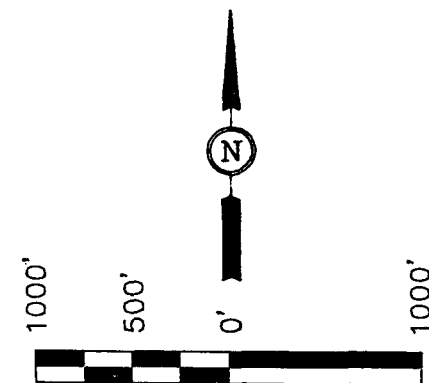
**PETROGLYPH OPERATING CO., INC.**

Well Location, UTE TRIBAL #30-11, located as shown in NE 1/4 SW 1/4 of Section 30, T5S, R3W, U.S.B.&M. Duchesne County, Utah.



**BASIS OF ELEVATION**

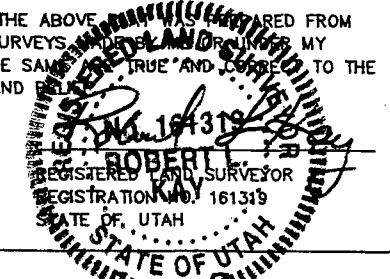
SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6116 FEET.



**SCALE**

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS AND DRAWING UNDER MY SUPERVISION AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**UNTAE ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-28-97	DATE DRAWN: 5-8-97
PARTY B.B. D.R. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	

EIGHT POINT PLAN

UTE TRIBAL #30-11  
NE/SW, SEC. 30, T5S R3W  
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2906	3781
"X" Marker	4471	2216
Douglas Creek	4604	2083
"B" Limestone	4980	1707
B/Castle Peak Limestone	5530	1157
Basal Carbonate Limestone	5964	723
Total Depth	6074	613

Anticipated BHP                      2000 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4604	2083
Oil/Gas	B/Castle Peak	5530	1157
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

						<u>MINIMUM SAFETY FACTOR</u>		
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0- 6074'	6074'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #30-11  
NE/SW, SEC. 30, T5S R3W  
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'  
250' - 4000'  
4000' - TD  
TD

MUD TYPE

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute  
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed  
DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #30-11  
NE/SW, SEC. 30, T5S R3W  
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

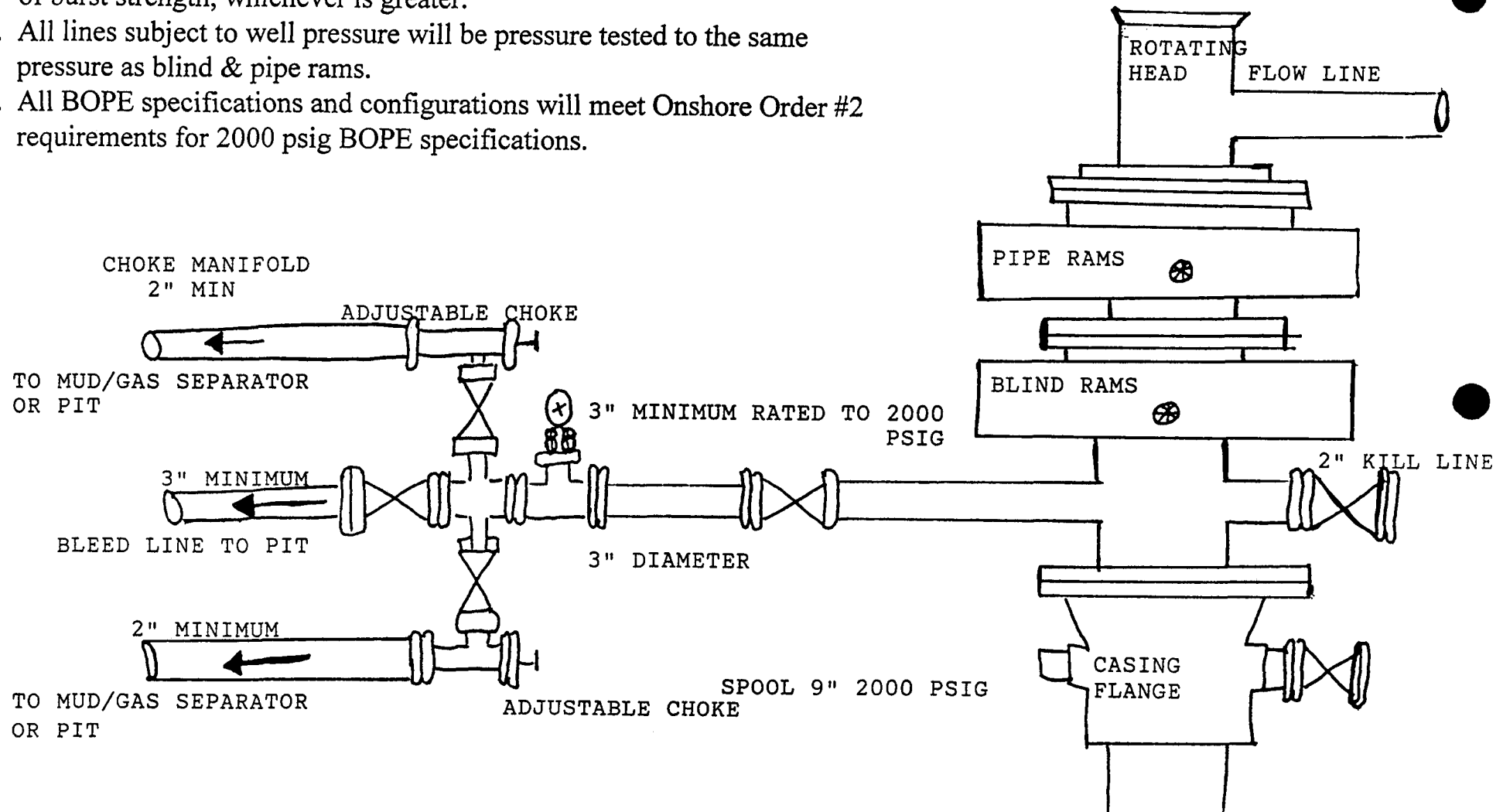
(Attachment: BOP Schematic Diagram)

## 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.  
CASING FLANGE IS 9" 2000 PSIG RATED.  
BOPE 9" 2000 PSIG

### TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.  
Well Name & Number: Ute Tribal #30-11  
Lease Number: BIA 14-20-H62-3519  
Location: 1721' FSL & 2274' FWL NE/SW, Sec. 30, T5S R3W  
U.S.B.&M., Duchesne County, Utah  
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of  
location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the  
well.

Casing String and  
Cementing - twenty-four (24) hours prior to running casing and  
cementing all casing strings.

BOP and related  
Equipment Tests - twenty-four (24) hours prior to running casing and  
tests.

First Production  
Notice - within five (5) business days after new well begins  
or production resumes after well has been off  
production for more than ninety (90) days.

For more specific details on notification requirements, please check the  
Conditions of Approval for Notice To Drill and Surface Use Program.

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 21.3 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.2 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None.
- D. Disposal wells - None.
- E. Drilling wells - None.
- F. Producing wells - 7\*
- G. Shut in wells - None
- H. Injection wells - None

(\*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

**B. OFF WELL PAD**

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 1140' from proposed location to a point in the NW/SE of Section 30, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #30-07 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded.  
The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

\_\_\_ To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

\_\_\_ To protect the environment (without a chemical analysis)  
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

\_\_\_ Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

#### 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the West side of the location.

The flare pit will be located downwind of the prevailing wind direction on the West side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the Northeast corner.

Access to the well pad will be from the South.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_

N/A Corner No. will be rounded off to minimize the fill.

## FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

## 10. PLANS FOR RESTORATION OF SURFACE

### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

### B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

#### ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

- A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between

\_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately \_\_\_\_\_ ft. \_\_\_\_\_ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter

1620 West 750 North

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

OPERATIONS

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

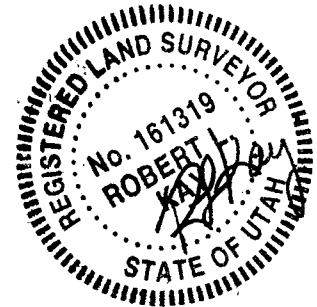
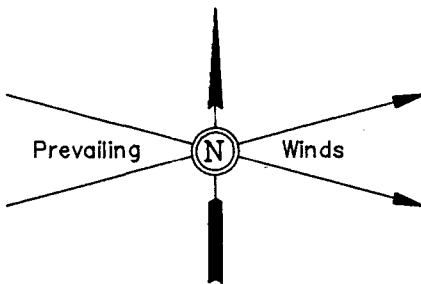
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Date

# PETROGLYPH OPERATING CO., INC.

## LOCATION LAYOUT FOR

UTE TRIBAL #30-11  
SECTION 30, T5S, R3W, U.S.B.&M.  
1721' FSL 2274' FWL



SCALE: 1" = 50'  
DATE: 5-8-97  
Drawn By: C.B.T.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT

### NOTE:

Pit Capacity W/2' of Freeboard is  $\pm 4,800$  Bbls.

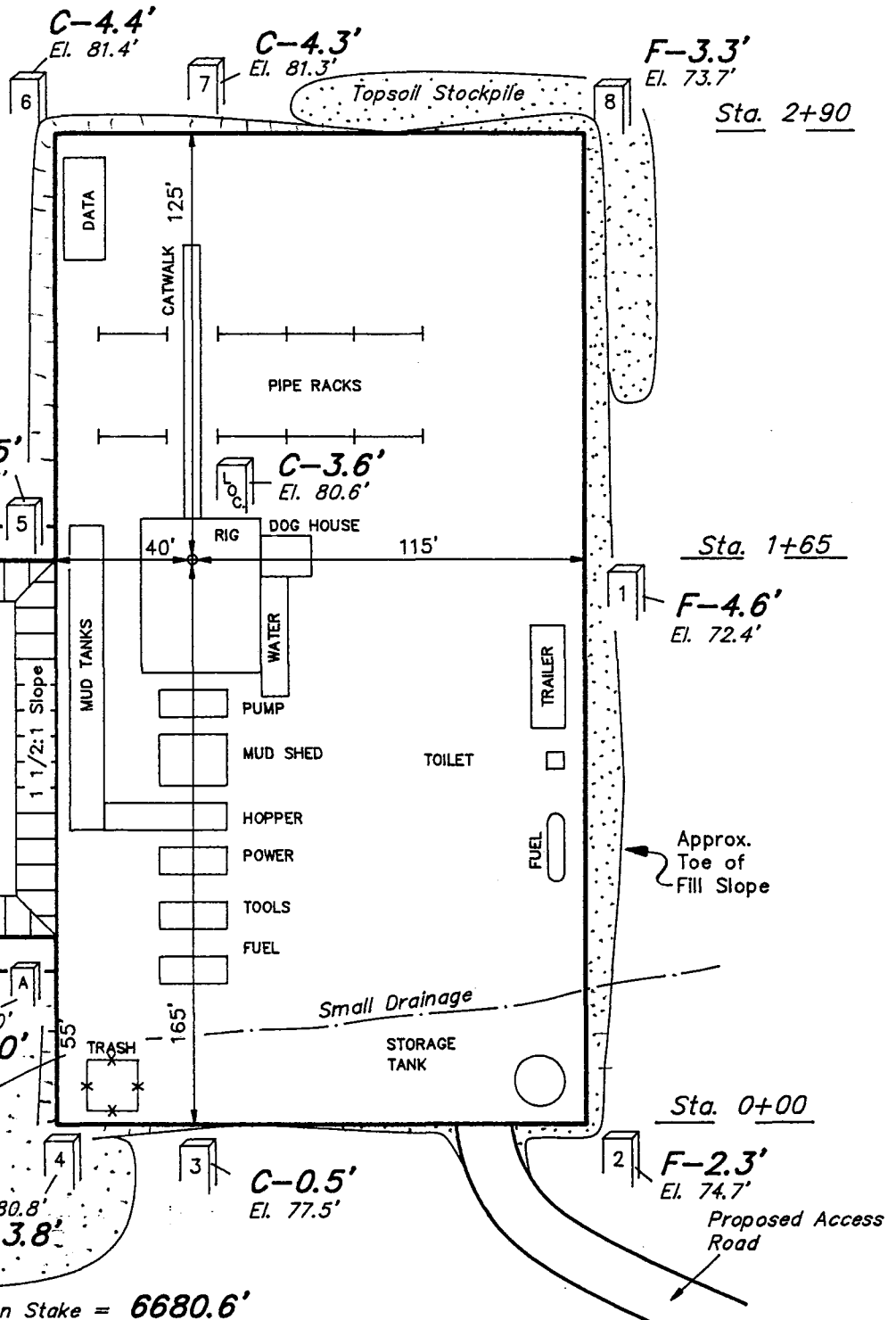
Approx. Top of Cut Slope

El. 82.0'  
C-13.0'  
(btm. pit)

Reserve Pit Backfill & Spoils Stockpile

Elev. Ungraded Ground at Location Stake = 6680.6'

Elev. Graded Ground at Location Stake = 6677.0'

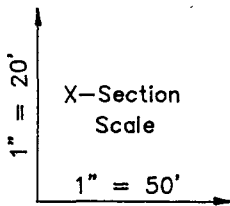
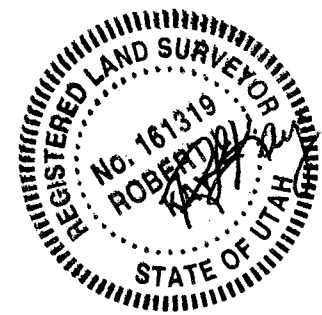


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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

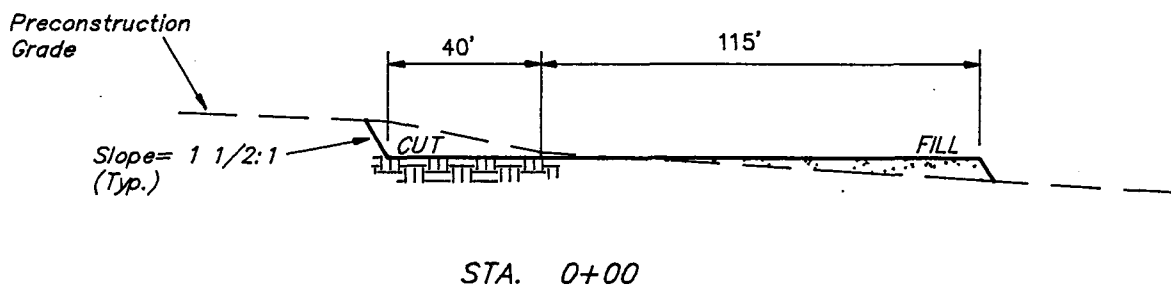
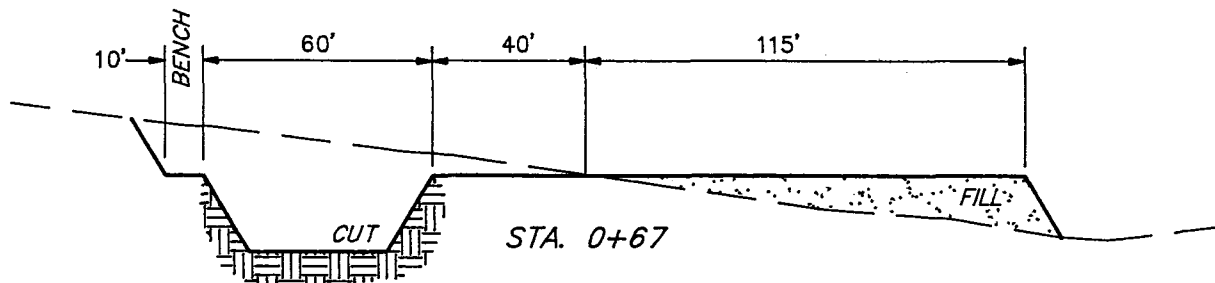
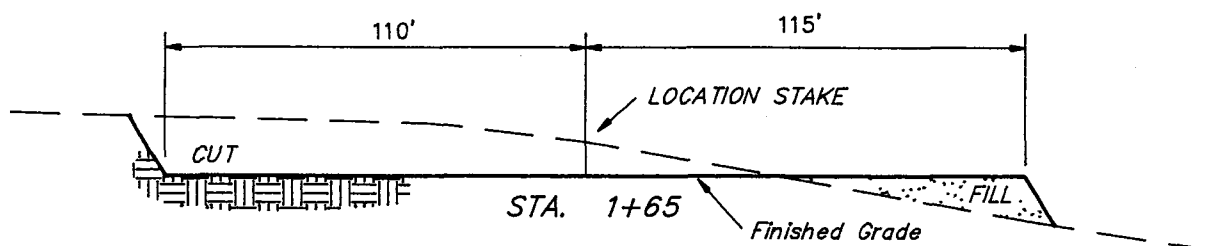
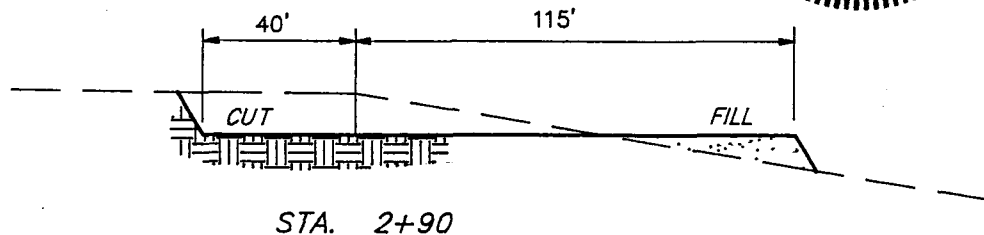
# PETROGLYPH OPERATING CO., INC.

## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #30-11  
SECTION 30, T5S, R3W, U.S.B.&M.  
1721' FSL 2274' FWL



DATE: 5-8-97  
Drawn By: C.B.T.



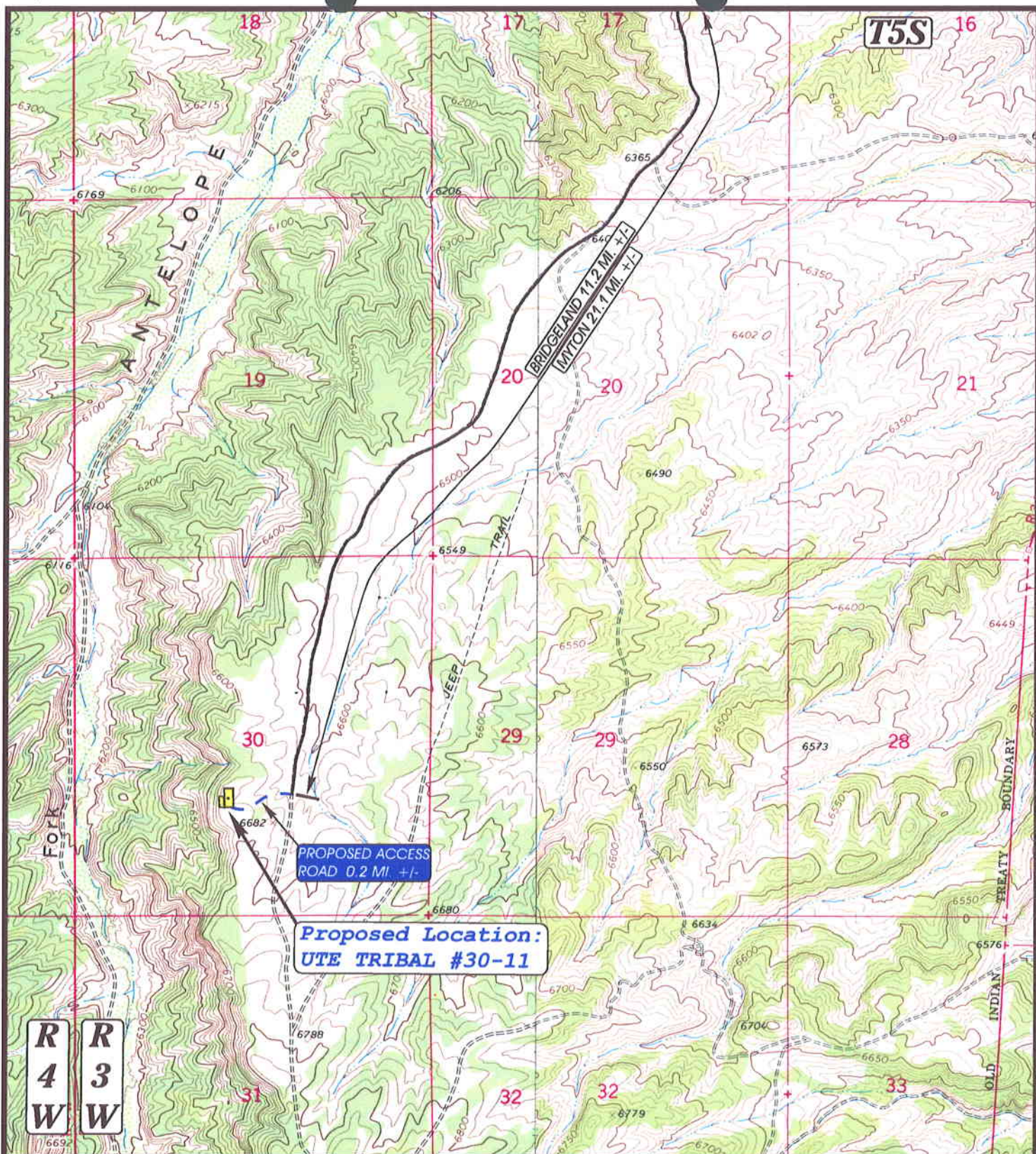
### APPROXIMATE YARDAGES

(12") Topsoil Stripping = 1,910 Cu. Yds.  
Remaining Location = 4,140 Cu. Yds.  
TOTAL CUT = 6,050 CU.YDS.  
FILL = 3,270 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 2,610 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 2,610 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

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**U**  
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**TOPOGRAPHIC  
MAP "B"**

**DATE: 4-29-97**  
**Drawn by: J.L.G.**



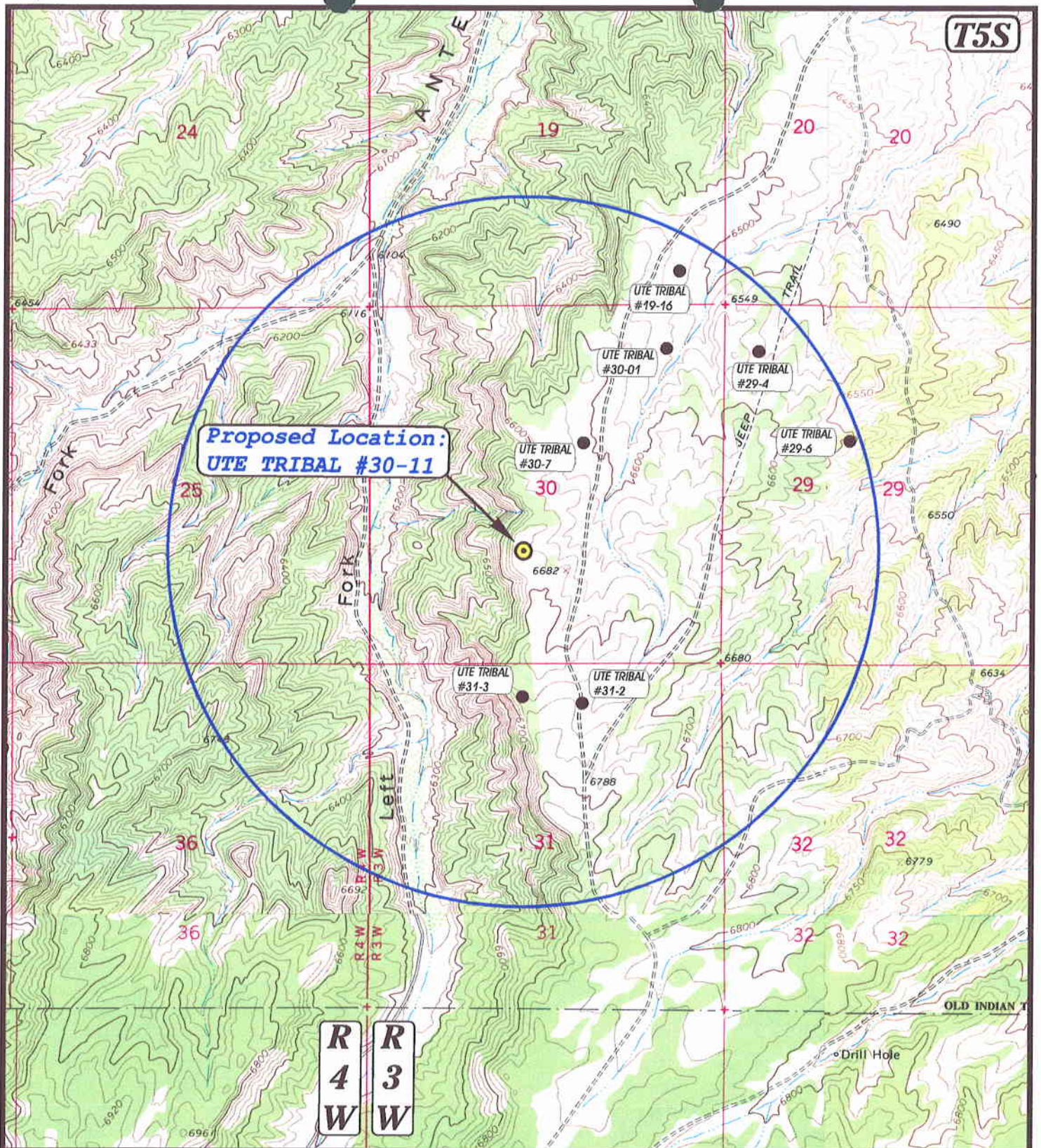
**SCALE: 1" = 2000'**

**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #30-11**  
**SECTION 30, T5S, R3W, U.S.B.&M.**  
**1721' FSL 2274' FWL**

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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

**T5S**



**LEGEND:**

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-in Wells

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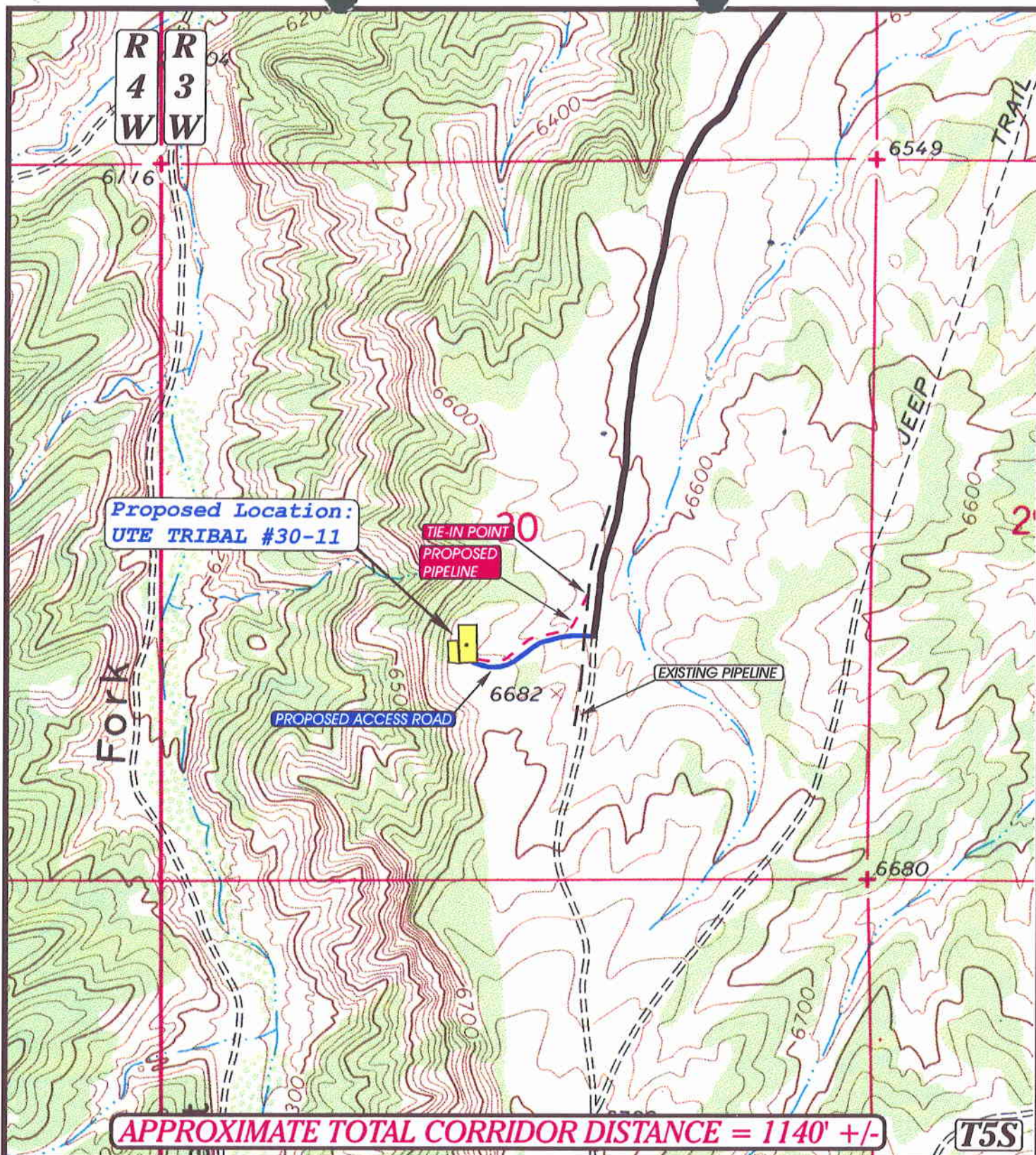
SCALE: 1" = 2000'

**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #30-11  
SECTION 30, T5S, R3W, U.S.B.&M.**

**TOPOGRAPHIC  
MAP "C"**

DATE: 4-29-97 J.L.G.



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**TOPOGRAPHIC  
MAP "D"**

--- Existing Pipeline  
- - - Proposed Pipeline



SCALE: 1" = 1000'

**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #30-11  
SECTION 30, T5S, R3W, U.S.B.&M.**

DATE: 4-29-97

Drawn by: J.L.G.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801

July 1, 1997

RE: Application for Exception Well Location  
Proposed Ute Tribal #30-11  
Township 5 South, Range 3 West  
Section 30: NE/4 SW/4  
Duchesne County, Utah

Gentlemen;

Petroglyph Operating Company, Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal #30-11 a 6074' Green River test, at a location 1721' FSL & 2274' FWL, NE/4 SW/4, Section 30, Township 5 South Range 3 West, Duchesne County, Utah.

The aforementioned footage is not a location at which a well could be drilled in compliance with the spacing order of this lease, which established 40 acre drilling units.

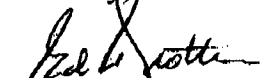
Enclosed is a topographic map which depicts the surface contour in the area of the subject location. Petroglyph believes the proposed exceptionally spaced location to be the preferred location from a construction standpoint. Also this location is preferred by the Bureau of Indian Affairs Resource Department and the Ute Indian Tribe, Energy and Minerals Department who regulate activities on this land.

Petroglyph Operating Company Inc. holds 100% of the operating rights underlying the subject drilling unit as well as drilling units to the north, south, east and west.

Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 801-789-4120.

Sincerely,

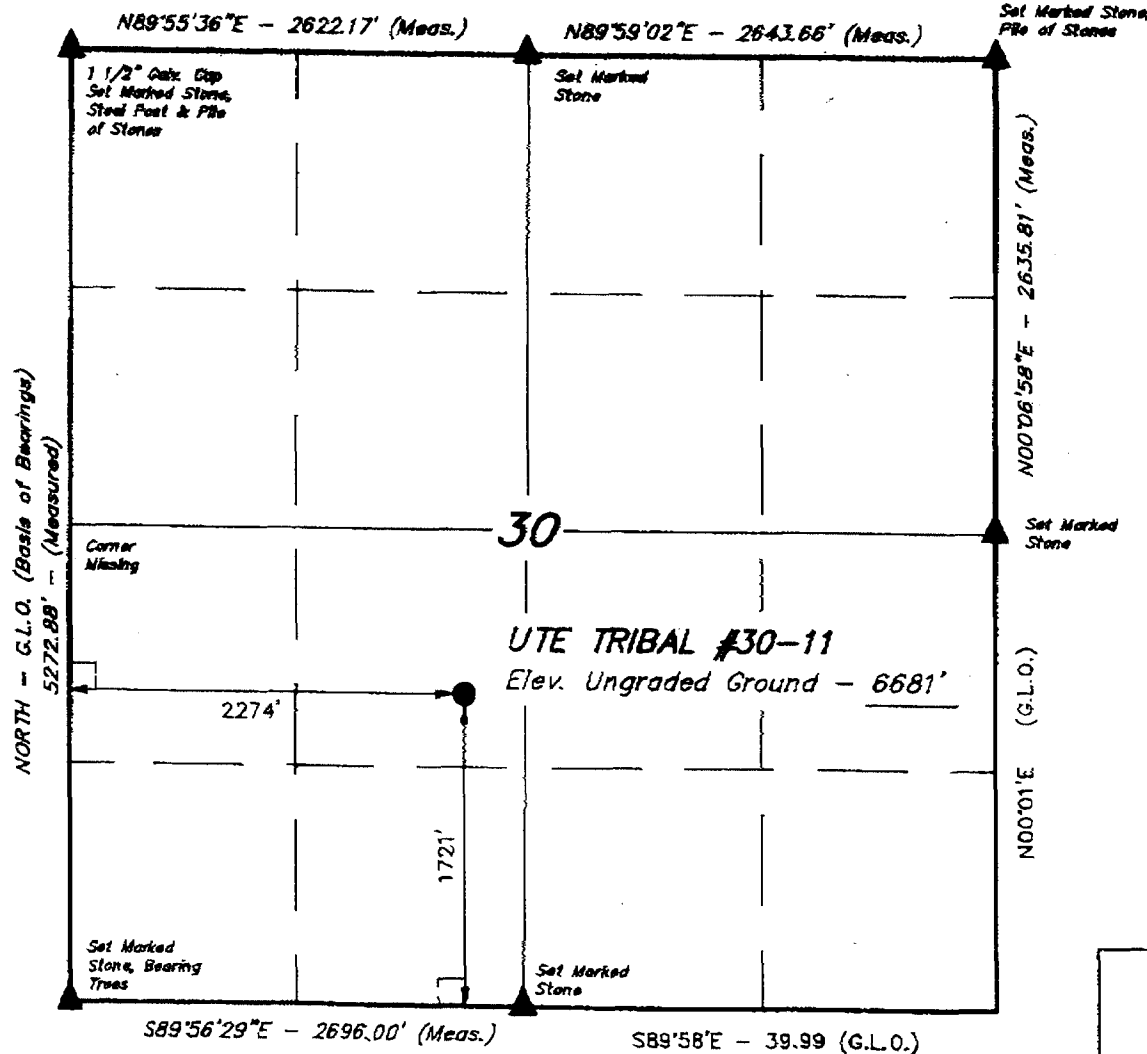


Petroglyph Operating Company Inc.  
Ed Trotter, Agent

T5S, R3W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #30-11, located as shown in NE 1/4 SW 1/4 of Section 30, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

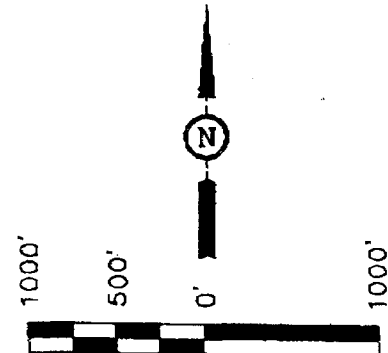


LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6116 FEET.



SCALE

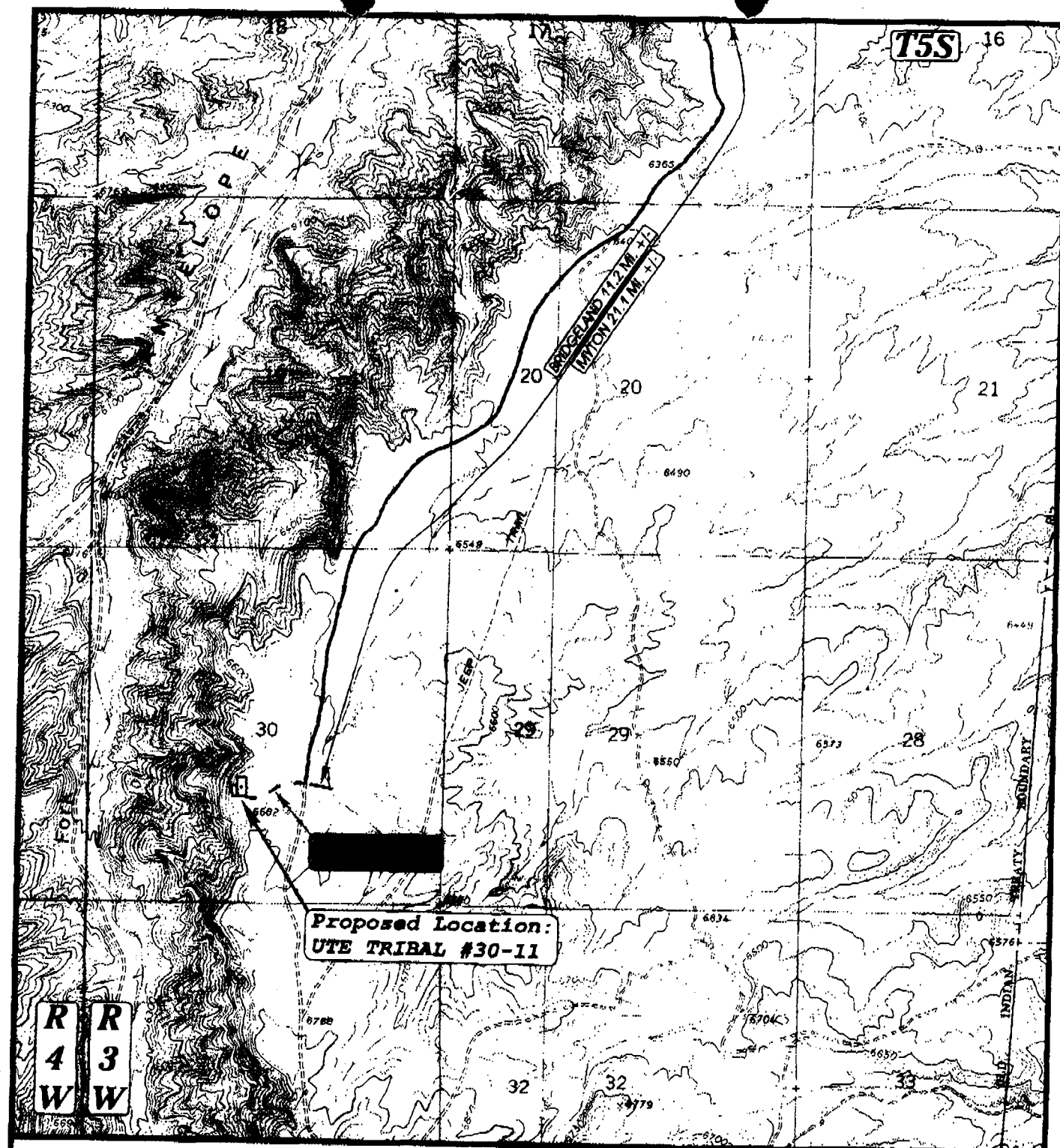
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PREPARED MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161315  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-28-97	DATE DRAWN: 5-8-97
PARTY B.B. D.R. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	



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**TOPOGRAPHIC  
MAP "B"**

DATE: 4-29-97  
Drawn by: J.L.G.

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SCALE: 1" = 2000'

**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #30-11  
SECTION 30, T5S, R3W, U.S.B.&M.  
1721' FSL 2274' FWL**

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/24/97

API NO. ASSIGNED: 43-013-31907

WELL NAME: UTE TRIBAL 30-11  
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NESW 30 - T05S - R03W  
SURFACE: 1721-FSL-2274-FWL  
BOTTOM: 1721-FSL-2274-FWL  
DUCHESNE COUNTY  
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND  
LEASE NUMBER: 14-20-H62-3519

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(Number 4556)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number 43-10152)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
\_\_\_\_ R649-3-2. General.  
☒ R649-3-3. Exception.  
\_\_\_\_ Drilling Unit.  
\_\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: Exc. loc. OK

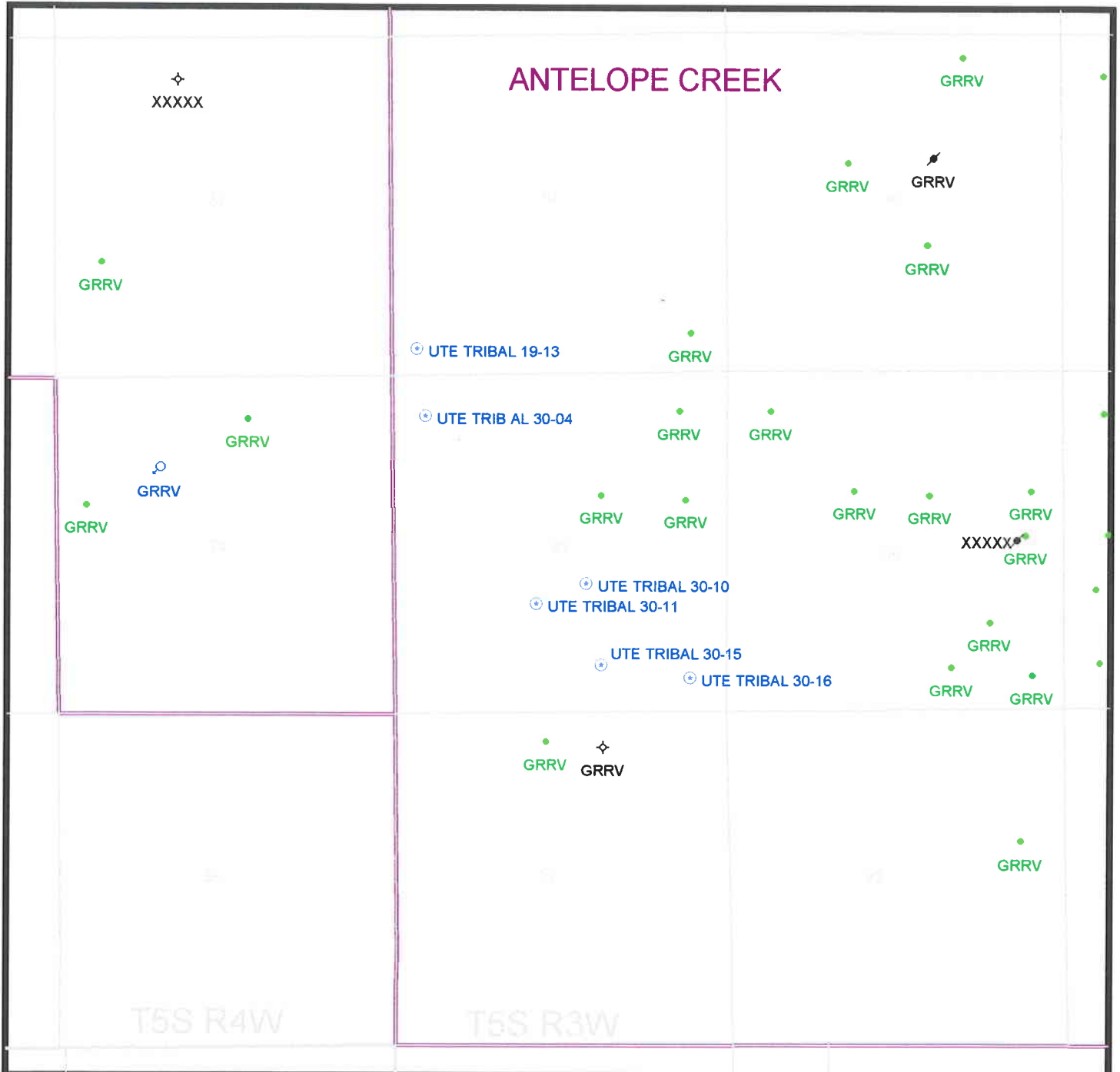
STIPULATIONS: \_\_\_\_\_

OPERATOR: PETROGLYPH (N3800)

FIELD: ANTELOPE CREEK (060)

SEC, TWP, RNG: 30, T5S, R3W

COUNTY: DUCHESNE UAC: R649-3-2 & R649-3-3



PREPARED:  
DATE: 26-JUNE-97

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UTAH 84066

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1721' FSL &amp; 2274' FWL NE/SW

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

21.3 MILES SOUTHWEST OF MYTON, UTAH

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1721'

## 16. NO. OF ACRES IN LEASE

640

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL

80

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6074'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6677.0' GRADED GROUND

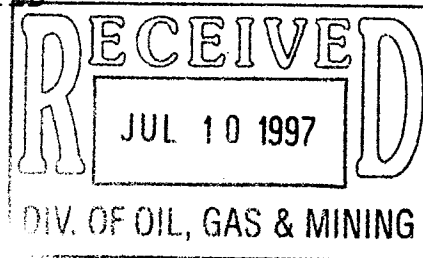
## 22. APPROX. DATE WORK WILL START\*

June 1997

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub>
7 7/8	5 1/2	15.5#	6074'	+ 1/4 #/sx celloflake.
				50/50 POZMIX + 2% GEL + 10%
				SALT TO 400' ABOVE ALL ZONE
				OF INTEREST (+ 10% EXCESS).
				LIGHT CEMENT (11 PPG+) +
				LCM TO 200' ABOVE OIL SHALE
				OR FRESH WATER INTERVALS (+
				5% EXCESS).

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah  
Ute Tribe, Fort Duchesne, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

6-20-97

(This space for Federal or State office use)

PERMIT NO.

NOTICE OF APPROVAL

APPROVAL DATE

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPYApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

ACTING Assistant Field Manager  
Mineral Resources

DATE

JUL 01 1997

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

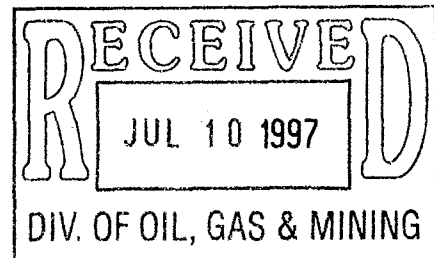
Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 30-11

API Number: 43-013-31907

Lease Number: 14-20-H62-3519

Location: NESW Sec. 30 T.5S R. 3W



For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

Jerry Kenczka (801) 781-1190  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## **SURFACE CONDITIONS OF APPROVAL**

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Seventy-Five (75) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 30 feet, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape and it shall be reseeded with desirable vegetation as recommended by the BIA. Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

## memorandum

DATE:

6/28/97

REPLY TO  
ATTN OF:

Superintendent, Uintah &amp; Ouray Agency

SUBJECT:

Concurrence Letter for Petroglyph Operating Company, T5S R3W  
 UT 30-10, NWNE, Sec. 30 UT 30-11, NESW, SEC. 30 UT 30-16, SESE, Sec. 30  
 UT 30-14, SESW, Sec. 30 UT 30-15, NESW, SEC. 15

TO:

Bureau of Land Management, Vernal District Office  
 ATTENTION: Minerals and Mining Division

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on JUNE 25, 1997, we cleared the proposed location in the following areas of environmental impact.

YES ☒ NO ☐ Listed threatened or endangered species  
 YES ☒ NO ☐ Critical wildlife habitat  
 YES ☒ NO ☐ Archaeological or cultural resources  
 YES ☐ NO ☐ Air quality aspects (to be used only if  
 project is in or adjacent to a Class I area

**REMARKS:** The Ute Tribe Energy & Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction.
2. 75 foot corridor rights-of-way shall be granted with the following:
  - A. Buried pipelines shall be buried a minimum of 3 feet below soil surface.
  - B. Access roads shall be limited to 30 feet, except as granted for sharp turns.
  - C. Surface pipelines shall be limited to 13 feet wide.
  - D. Buried pipelines shall be limited to 15 feet wide and construction will be monitored by Tribal Technician.
3. Pipeline adjacent to access roads shall be buried within 1.5 feet from the outside edge the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
4. Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have access permits prior to construction.
5. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the area examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
6. All mitigative stipulation's contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA) will be strictly adhered.
7. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
8. The personnel from the Ute Tribe Energy & Minerals Department should be consulted, should cultural remains from subsurface deposits be exposed or identified during construction work.
9. Upon completion of Application for Right-of-way, the Ute Tribe Energy and Minerals Department will be notified by Petroglyph Operating Company, so that a Tribal Technician can verify Affidavits of Completion's.

JUN 26 1997

RECEIVED

OPTIONAL FORM NO. 10

(REV. 1-94)  
5010-118

SITE SPECIFIC  
ENVIRONMENTAL ANALYSIS

RECEIVED

JUN 26 1997

1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #30-11, and construct pipelines, and an access road.

2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 6-5-97
- C. Well number- 30-11
- D. Right-of-way- Access road R\W approx. 0.2 mile.  
Pipeline R\W approx. 1140 feet.
- E. Site location- NESW, Section 30, T5S, R3W, USB&M.

4.0 SITE SPECIFIC SURVEY

A. SITE DESCRIPTION

- 1. Elevation (feet) 6681
- 2. Annual precipitation (inches)- 12-14
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") gravely loam with moderate permeability.

B. VEGETATION

- 1. Habitat type is upland scrub.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 30% grasses, 56% shrubs, 10% forbs, 4% trees. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, flox, daisy, Indian paint brush, & annuals. Shrubs consist of black sagebrush, fring sage, bud sage, prickly pear, winterfat, shadscale, snakeweed, greasewood, rabbit brush. Trees, pinion pine, and Utah Juniper.

4. Observed Threatened & Endangered species: None.

5. Potential For Threatened & Endangered species: Slight

7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope. (elk & mule deer use this area most during winter months.)

2. Small Game-The area is used by cottontail rabbit.

3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 1.75 miles north east of this site in Section 20, T5S, R3W, USB&M.

5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.

6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

4.2 PRESENT SITE USE

A. USAGE

	<u>acres</u>
Rangeland	4.12
Irrigable land	0
Woodland	0
Non-Irrigable land	4.12
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

4.3 CULTURAL RESOURCES

A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist.

## 5.0 ENVIRONMENTAL IMPACTS

### A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.73
2. Well site	1.43
3. Pipeline right-of-way	1.96
4. Corridor right-of-way	0.00
5. Total area disturbed	4.12

### B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.27
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:  
Yes No X

### C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.27 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

### D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

## 6.0 MITIGATION STIPULATIONS

### A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.
2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

#### B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas.

#### 2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where surface pipelines do not parallel roads but cross country between stations, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

#### 3. BURIED PIPELINES

Buried pipelines shall be buried a minimum of 3.0 feet below the soil surface. After construction of the pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation.

Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

#### 4. CORRIDOR RIGHT-OF-WAY

A 75 foot wide corridor pipeline right-of-way will be used for, surface pipelines, buried pipelines.

#### 5. ACCESS ROADS

Although the access road rights-of-way is 30 feet, the constructed travel width of the access road shall be limited to 22 feet, except it may be wider where sharp curves, or intersections are required.

## 6. DRILLING SYSTEM

An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

## 7. PRODUCTION SYSTEM

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

## 8. FIREWOOD

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

## C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite may be constructed and drilled at any time throughout the year.

## D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

## E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its sub-contractors, shall acquire access permits and business permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

## 7.0 UNAVOIDABLE ADVERSE IMPACTS

### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point

surface use plan.

B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 6-3-97, the proposed location in the following areas of environmental impacts has been cleared:

<u>X</u>	Yes	_____	No	Listed Threatened & Endangered species
<u>X</u>	Yes	_____	No	Critical wildlife habitat
<u>X</u>	Yes	_____	No	Historical and cultural resources

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

#### 11.0 RECOMMENDATIONS

##### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

6-5-97

Date

Dale S. Hanberg  
Representative - BIA Land  
Operations, Uintah and Ouray  
Agency

#### 12.0 DECLARATION

##### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

6/5/97

Date

Allen Lloyd  
Acting Superintendent,  
Uintah and Ouray Agency

#### 14.0 CONSULTATION

##### A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA  
Ed Trotter-Petroglyphs  
Lonnie Nephi-UTEM  
Greg Darlington-BLM

B:\EAPet30.11



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

July 11, 1997

Petroglyph Operating Company, Inc.  
P.O. Box 607  
Roosevelt, Utah 84066

Re: Ute Tribal 30-11 Well, 1721' FSL, 2274' FWL, NE SW, Sec. 30,  
T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31907.

Sincerely,

*Lowell P. Braxton*  
Lowell P. Braxton  
Deputy Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.  
Well Name & Number: Ute Tribal 30-11  
API Number: 43-013-31907  
Lease: 14-20-H62-3519  
Location: NE SW Sec. 30 T. 5 S. R. 3 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801) 538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801) 538-5334 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**CONFIDENTIAL**

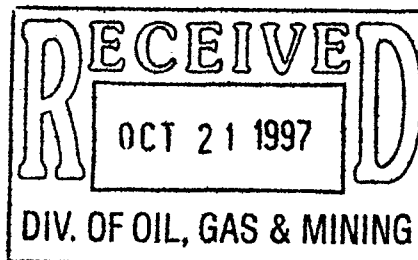
1

# **PETROGLYPH** Operating Company, Inc.

6209 North Highway 61, Hutchinson, Kansas 67502 • P.O. Box 1839, Hutchinson, Kansas 67504-1839

October 15, 1997

Vicky Dyson  
State of Utah  
Division of Oil, Gas & Mining  
1594 W. North Temple, Ste.1210  
Salt Lake City, UT 84114



**CONFIDENTIAL**

Ms. Dyson:

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

<u>Well Name</u>	<u>Log</u>
Ute Tribal 19-06	CNL & AIT
Ute Tribal 16-07	CNL & AIT
Ute Tribal 19-05	CNL & AIT
Ute Tribal 18-11	CNL & AIT
Ute Tribal 15-12	CNL & AIT
Ute Tribal 16-03	CNL & AIT
Ute Tribal 14-05	CNL & AIT
Ute Tribal 19-09	CNL & AIT
Ute Tribal 16-08	CNL & AIT
Ute Tribal 19-04	CNL & AIT
Ute Tribal 07-10	CNL & AIT
Ute Tribal 19-03	CNL & AIT
Ute Tribal 30-10	CNL & AIT
Ute Tribal 30-11	CNL & AIT

43 013 31907 TOES R03W30

If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

A handwritten signature in cursive script that reads "Judy Gates".

Judy Gates  
Petroleum Geology Technician

FORM 7

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Ute Tribal 30-11  
API number: 43-013-3907
2. Well Location: QQ N45W Section 30 Township 5S Range 3W County Duchesne
3. Well operator: Petroglyph Operating Company, Inc.  
Address: P.O. Box 607  
Roosevelt, UT 84066 Phone: 801-722-2531
4. Drilling contractor: Union Drilling  
Address: P.O. Drawer 40  
Buckhannon, WV 26201 Phone: 304-472-4610
5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	570	Dry	
	789	Dark	no circ w/o scrip pump no sample
	1375	Blow test 1/8 x 7	

6. Formation tops:


If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 9/20/97Name & Signature: Lisha K. BellTitle: Operations Coordinator

## COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

CONFIDENTIAL

**Operator:** Petroglyph Operating Company, Inc.

**Lease:** Ute Tribal 30-11

**API #:** 43-013-31907

**Location:** 30 - 5 S - 3 W

**County, St.:** Duchesne UT

**Property:** 50187

**Elevation:** GL 6677

KB 6687

**AFE/EPE Number:**

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

10/1/97	\$1,356.00	
---------	------------	--

SITP 300 psi. 7:00 a.m. Space out rods. Install plshd rod. Seat pmp & press test w/rig pmp to 500 psi & increase to 1000 psi w/insert pmp. RD rig & equip. Clean sand from rig tank. Clean loc. Move out. 9:00 a.m. FINAL.

**COMPLETION NOTE:**

The 11 guided 3/4" rods in this string are spaced every 4th rod from 4143 to 5207' (1064')

Rod Detail 1 1/2"x22' plshd rod w/ 1 3/4"x12' liner

pony rods one ea. 2', 4', 8'x7/8"

Sucker rods 66 slick 7/8"

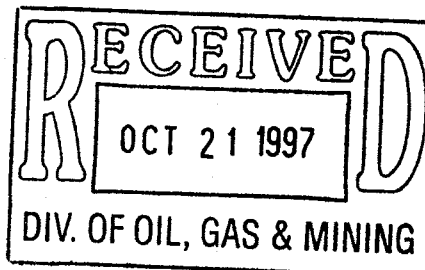
Sucker rods 130 slick 3/4"

Sucker rods 11 guided 3/4"

pmp# 2087 - RHNC 2 1/2" x 1 3/4" x 16'

40 ring press act. w/3 cup top

hid dwn & 150" max stroke



# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

9/30/97	\$17,471.00	
---------	-------------	--

7:00 a.m. 9:00 a.m. Fix rig starter. Install heat system on rig. (Pool time) 9:a.m. SITP 300 psi. SICP 150 psi. W/EOT @ +/- 4172, load well bore w/10 bbls hot K wtr. (Fluid level +/- 500') Circ. well & displace gas & oil while working on rig. RIH w/BVBP RET tool & find TOS @ +/- 4757. Circ. reverse & clean 39' sand off BVBP @ +/- 4796. Circ clean & latch & release BVBP & POOH. MU prod. BHA & RIH w/tbg prod. Stop off bore & frac flange. Set 5 1/2" B2 TAC. Install well head equip & tbg flange. Land tbg in tension & NU flange. X/over to rod equip. MU & prime down hole rod pmp & single in on rods. Tag PSN. SWIFN 7:30 p.m.

## COMPLETION NOTES:

Footage from btm perf to EOT 91'

Footage from EOT to PBTD 691'

Tbg is landed in tension @ 12,000#

5 1/2" Tupe B2 TAC w/regular slips & 40,000# shear value is from Arrow Comp Sys.

Hanging on mech PSN inside perf'd tbg sub & RTTM 2 jts are 2 jts. 1 1/4"x21' pipe w/pmp screen @ btm.

Tbg flange from Marta Co. 2 7/8" 8 rnd pin x box x 3m bolt flange

Csg flange from Marta Co 5 1/2" 8 rnd threadx 3 m bolt flange x 2" x 2" ports

## Tubing Detail

Stretch for tension (12,000#)	.85	
KB	10.	
132 jts tbg	4130.12	TOP TAC
TAC 5 1/2" B2	2.75	4140.97
34 jts tbg	1063.72	TOP PSN
PSN + 45	1.10	5207.44
1 jt tbg	31.74	
Mech PSN	.80	
Perf'd 2 7/8" tbg sub	6.00	
2 jts tbg	63.44	
2 7/8 bull plug	.85	
EOT = 5311.37		

## FLUID RECOVERY

ZONE BLF:	872
ZONE BLFR:	401
ZONE BLFTR:	471
ZONE % REC:	46.6%
WELL BLF:	2149
WELL BLFR:	631
WELL BLFTR:	1518
WELL % REC:	29.4%

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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9/29/97

\$2,171.00

7:00 a.m. W/EOT @ +/- 4172, swab to recover fluids from Frac's done 9/26/97 on perms @ B6.2, B11 & C5.2. Fluid level 1st run @ 500', 0% oil cut. Make 40 runs in 10 hours recovering 59 bbls oil, 340 1/4 bbls wtr for 399 1/4 total bbls. First measureable oil cut @ 1% on run #16 w/147 1/4 bbls recovered. Last run fluid level @ 2200' & oil cut @ 32%. SWIFN @ 6 p.m.

FLUID RECOVERY

ZONE BLF:	872
ZONE BLFR:	401
ZONE BLFTR:	471
ZONE % REC:	46.6%
WELL BLF:	2149
WELL BLFR:	631
WELL BLFTR:	1518
WELL % REC:	29.4%

9/27/97

Change out BOP's. TIH w/tbg. Tag sand @ 4150 +/- . Clean out to RBP @ 4300 +/- . POOH. LD RBP. TIH w/tbg & retrieve head tag @ 4520. Cir clean on & off plug. Latch & release. POOH. LD RBP & retrieving head, RU BVBP retrieving head. TIH. Tag sand @ 4790. Clean out BVBP. POOH to 4168. RU to swab. SWIFN.

FLUID RECOVERY

ZONE BLF:	872
ZONE BLFR:	161
ZONE BLFTR:	711
ZONE % REC:	7.6%
WELL BLF:	2149
WELL BLFR:	452
WELL BLFTR:	1697
WELL % REC:	16.4%

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

9/26/97

### PERFORATIONS:

5216-5220	Green River D (05)	4 SPF	16 shots
5071-5079	Green River D (03.3)	4 SPF	32 shots
4934-4944	Green River C (06.2)	4 SPF	40 shots
4820-4832	Green River C (06.1)	4 SPF	48 shots
4722-4727	Green River C (05.2)	4 SPF	20 shots
4433-4439	Green River B (11)	4 SPF	24 shots
4190-4198	Green River B (06.2)	4 SPF	32 shots

Spot 250 gal acid on C5.2 zone @ 4722-27. POOH w/tbg Perf C5.2. Try to break @ 3500. Spot HCL w/dumy baller. Breakdown formation @ 500 psi. 4 to 5 bbls min. Frac w/6293 gal Boragel 30 & w/30,000# 20-40 sand in 1 to 10 lb/gal stages. Flush w/4592 gal K wtr. Job done w/avg rate of 25.9 bpm @ max rate of 26.8 bpm @ avg press 2550 psi & max press 3170 psi. ISIP 2108. PSI 5 min 2910. PSI 10 min 1805. PSI 15 min 1684. PFG .88.

Lubricate in RBP & set @ 4580. Shot B11 4433-39. Break @ 1800 psi. Frac w/5932 gal Boragel 30 & w/27,500# 20/40 sand in 1 to 10 lb/gal stages. Flush w/3969 gal K wtr. Job done w/avg rate of 26.4 bpm @ max rate of 27.1 bpm @ avg press 2220 psi & max press 2760 psi. ISIP 2390. PSI 5 min 2147. PSI 10 min 1977. PSI 15 min 1801. Pressure frac gradient .97.

Lubricate in RBP & set @ 4300. Press test 3000 psi. Shot B6.2 @ 4190-98. Try to break @ 3500 psi. Spot HCL w/damp boiler & break @ 2300 psi.

Frac w/7092 gal Boragel 30 & w/42,400# 20-40 sand in 1 to 10 lb/gal staages. Flush w/4592 gal K wtr. Job done w/avg rate of 26.7 bpm @ max rate of 27.1. BPM @ Avg press 1980 psi & max press 2300 psi. ISIP 2390. PSI 5 min 2147. PSI 10 min 1977. PSI 15 min 1801.

Flow back after 5 min. Shut in @ 1 bpm. Recover 61 bbls.

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs	Zone
4722-4727	Green River C (05.2)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6293	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	30000	1-10

#### PRESSURE/RATE:

Maximum:	3170 psi	26.8 BPM
Average:	2550 psi	25.9 BPM

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

FRACTURE .88  
GRADIENT:  
STIMULATION TREATMENT:  
INTERVALS:  
Perfs Zone  
4433-4439 Green River B (11)

FLUID:  
Fluid Task Fluid Type Amount Unit  
frac fluid Boragel 30 5932 gal

PROPPANT: Type Total Lbs: Ramp Range  
20/40 sand 27500 1-10

PRESSURE/RATE:  
Maximum: 2760 psi 27.1 BPM  
Average: 2220 psi 26.4 BPM

FRACTURE .97  
GRADIENT:

STIMULATION TREATMENT:  
INTERVALS:  
Perfs Zone  
4190-4198 Green River B (06.2)

FLUID:  
Fluid Task Fluid Type Amount Unit  
frac fluid Boragel 30 7092 gal

PROPPANT: Type Total Lbs: Ramp Range  
20/40 sand 42400 1-10

PRESSURE/RATE:  
Maximum: 2300 psi 27.1 BPM  
Average: 1980 psi 26.7 BPM

FLUID RECOVERY  
ZONE BLF: 872

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

ZONE BLF:	161
ZONE BLFR:	711
ZONE % REC:	13.3%
WELL BLF:	1277
WELL BLFR:	291
WELL BLFTR:	986
WELL % REC:	22.8%

9/25/97

Tbg 0 psi. Csg 0 psi. Start swabbing zones D5.0, D3.3, C6.2, C6.1 all together. Recover 170.5 bbls wtr, 28.5 bbls oil. Oil cut 50%. Made 20 swab runs. TEH. Cir sand & retrieve BVBP. Move up hole to 4795. Set, pull off & test to 4500 psi. Spot EOT @ 4740. REady to spot acid in the morning. SWIFN.

### FLUID RECOVERY

ZONE BLF:	1277
ZONE BLFR:	291
ZONE BLFTR:	986
ZONE % REC:	22.8%
WELL BLF:	1277
WELL BLFR:	291
WELL BLFTR:	986
WELL % REC:	22.8%

9/24/97

SICP 0 psi. TIH cir on RBP @ 4900 +/-, POOH w/RBP. LD RBP. TIH @ cir dwn on RBP @ 5020 +/- 95' sand on top. Latch & release RBP. POOH. LD RBP. TIH for RBP. Tag sand @ 5230. Cir down to RBP @ 5165 +/-, Latch on & release. POOH. LD RBP. TIH 5300' +/-, POOH to 4800. RU to swab. SWIFN.

### FLUID RECOVERY

ZONE BLF:	1277
ZONE BLFR:	121
ZONE BLFTR:	1156
ZONE % REC:	9.5%
WELL BLF:	1277
WELL BLFR:	121
WELL BLFTR:	1156
WELL % REC:	9.5%

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

9/23/97

SICP 0 psi. Frac w/10,600 gal Boragel 30 & w/600 sxs # 20/40 sand in 1 to 10 lb/gal stages. Flush w/562 gal k wtr. Job done w/avg rate of 31 bpm @ max rate of 33.6 bpm @ avg press 2450 psi & max press 3660 psi. ISIP 2636. PSI 5 min 1680. PSI 10 min 1550. PSI 15 min 1327. PSI pressure frac gradient of PFG 98. Start flow. Frac back 1 bpm. Flow back 61 bbls. TIH. Clean sand out & retrieve RBP @ 4860 +/- POOH. Didn't have RBP. TIH to find RBP TAG @ 4920 +/- Circ down, rotate to the right, clean up. POOH. Still didn't have RBP. SWIFN.

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs	Zone
4820-4832	Green River C (06.1)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	10600	gal

#### PROPPANT:

Type	Total Lbs:	Ramp Range
20/40 sand	600	1-10

#### PRESSURE/RATE:

Maximum:	3770 psi	33.6 BPM
Average:	2450 psi	31 BPM

FRACTURE GRADIENT: .98

#### FLUID RECOVERY

ZONE BLF:	1232
ZONE BLFR:	76
ZONE BLFTR:	1156
ZONE % REC:	6.2%
WELL BLF:	1236
WELL BLFR:	80
WELL BLFTR:	1156
WELL % REC:	6.1%

#### FLUID RECOVERY

ZONE BLF:	1232
ZONE BLFR:	76
ZONE BLFTR:	1156

## COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

**Operator:** Petroglyph Operating Company, Inc.

**Elevation:** GL 6677

**Well:** Ute Tribal 30-11

KB 6687

**County, St.:** Duchesne UT

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Activity Date	Daily Cost	Activity Description
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		ZONE % REC:	6.2%
		WELL BLF:	1232
		WELL BLFR:	76
		WELL BLFTR:	1156
		WELL % REC:	6.2%

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

9/22/97

### PERFORATIONS:

5216-5220	Green River D (05)	4 SPF	16 shots
5071-5079	Green River D (03.3)	4 SPF	32 shots
4934-4944	Green River C (06.2)	4 SPF	40 shots
4820-4832	Green River C (06.1)	4 SPF	48 shots

### WELLBORE:

6069	RTD
6069	LTD
6002	PBTD
6047	CSA

Frac w/6,405 gal Boragel 30 & W/29,000# 20/40 sand in 1 to 10 lb/gal stages. Flush w/3449 gal K wtr. Job done w/avg rate of 21.5 bpm @ max rate of 23.5 bpm & avg press 2590 psi & max press 4971 psi. Frac screened out, flow back 1 bpm. TIH clean out sand to +/- 5216. Spot acid & POOH. RIH w/wls & set RBD @ 5165. Test to 3000 psi.

Perf D3.3 zone @ 5071-79. Try to break. Break @ 3500. Pump into @ 1200 psi. Frac w/7550 gal Boragel 30 & w/47,500# 20/40 sand in 1 to 10 lb/gal stages. Flush w/4941 gal K wtr. Job done w/avg rate of 25.8 bpm @ max rate of 26.5 bpm @ avg press 2490 psi & max press 3125 psi. ISIP 2955. PSI 5 min 2634 PSI, 10 min 2181 psi, 15 min 1968 psi. Pressure Frac Gradient of PFG

Lubricate in RBP & set @ 5020. Test 3000 psi. Shot C6.2 @ 4934-44. Frac w/5670 gal Boragel 30 & w/29,500 # 20/40 sand in 1 to 10 lb/gal stages. Flush w/4778 gal k wtr. Job done w/ avg rate of 25.5 bpm @ max rate of 25.8 bpm @ avg press 2020 psi & max press 2560 psi. ISIP 2420 psi, 5 min 2002 psi, 10 min 1738 psi, 15 min 1595 psi. Pressure frac gradient of PFG

Lubricate in RBP & set @ 4890. Test 3000 psi. Shot C6.1 zone. Try to break. Pressure up to 3500 psi. SWIFN.

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs	Zone
5216-5220	Green River D (05)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6405	gal

#### PROPPANT:

Type	Total Lbs: Ramp Range
20/40 sand	29000 1-10

#### PRESSURE/RATE:

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

Maximum: 4971 psi 23.5 BPM

Average: 2950 psi 21.5 BPM

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs Zone  
5071-5079 Green River D (03.3)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7550	gal

PROPPANT:	Type	Total Lbs:	Ramp	Range
	20/40 sand	47500		1-10

#### PRESSURE/RATE:

Maximum: 3125 psi 26.5 BPM

Average: 2490 psi 25.8 BPM

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs Zone  
4934-4944 Green River C (06.2)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	5670	gal

PROPPANT:	Type	Total Lbs:	Ramp	Range
	20/40 sand	29500		1-10

#### PRESSURE/RATE:

Maximum: 2560 psi 25.8 BPM

Average: 2020 psi 25.5 BPM

#### FLUID RECOVERY

ZONE BLF:	904
ZONE BLFR:	44
ZONE BLFTR:	860
ZONE % REC:	4.9%
WELL BLF:	904

# COMPLETION REPORT

10/10/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6677

Well: Ute Tribal 30-11

KB 6687

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

WELL BLFR: 44  
WELL BLFTR: 860  
WELL % REC: 4.9%

9/19/97

\$3,062.00

PERFORATIONS:

5216-5220 Green River D (05) 4 SPF 16 shots

7:00 a.m. Finish single in tbg w/BVBP & set w/top cup @ +/- 5401. Pull EOT to +/- 5236'. Pmp 6 bbls HCL dwn tbg & displace w/30 bbls K wtr spotting HCL across area to be perf'd. POOH w/ tbg & RET tool. Remove excess tbg & racks. MIRU Schlum wls & perf D5.0 zone @ 5216-20 W/4" gun w/4 spf = 16 holes. RD wls. Break dwn form @ 1800 psi & inject 20 bbls @ 4 bpm @ 2000 psi. SWIFN 5:30 p.m.

### STIMULATION TREATMENT:

#### INTERVALS:

Perfs Zone  
5216-5220 Green River D (05)

#### FLUID:

Fluid Task	Fluid Type	Amount	Unit
breakdown perfs	15% HCL acid	252	gal
breakdown perfs		840	gal

#### PRESSURE/RATE:

Maximum: 2000 psi  
Average: 1800 psi 4 BPM

#### FLUID RECOVERY

ZONE BLF: 26  
ZONE BLFR: 0  
ZONE BLFTR: 26  
ZONE % REC: .%  
WELL BLF: 26  
WELL BLFR: 0  
WELL BLFTR: 26  
WELL % REC: .%

9/18/97

\$2,449.00

12:00 noon. Road rig & equip to loc. MIRU. Install Frac flange & BOPE. RU pmp lines & Press. test to 4500 psi. Lost 0 psi in 5 min. X/over to 2 7/8" equip. Count, tally tbg. MU 5 1/2" BVBP & single in on 104 jts. tbg. SWIFN 7:30 p.m.

## COMPLETION REPORT

10/10/97

*Petroglyph Operating Co., Inc.*

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**Operator:** Petroglyph Operating Company, Inc.

**Elevation:** GL 6677

**Well:** Ute Tribal 30-11

KB 6687

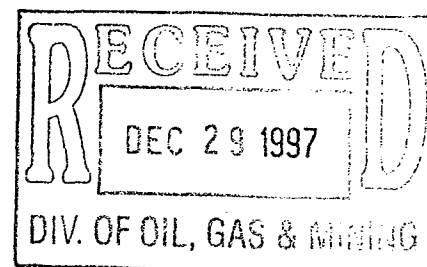
**County, St.:** Duchesne UT

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Activity Date	Daily Cost	Activity Description
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**Cumulative Cost:** \$26,509.00

**Days Since Start:** 14



December 24, 1997

Mr. Jim Thompson  
State of Utah - Division of Oil, Gas & Mining  
1594 West North Temple, Ste. 1210  
Box 145801  
Salt Lake City, UT 84114-5801

RE: EPA AREA PERMIT NO. 2736-00000

Dear Mr. Thompson:

Enclosed are copies of Sundry Notices being filed with the Bureau of Land Management requesting permission to convert from producing to injection on the following wells:

Ute Tribal #07-09	Ute Tribal #28-05A
Ute Tribal #07-16	Ute Tribal #29-06
Ute Tribal #16-02	Ute Tribal #30-11
Ute Tribal #16-08	Ute Tribal #33-08D3
Ute Tribal #18-12	Ute Tribal #33-10D3
Ute Tribal #16-16	Ute Tribal #33-14D3
Ute Tribal #21-03	Ute Tribal #33-16D3

If you need further information, please do not hesitate to call me. Thank you for your attention to this matter.

Sincerely,

Kathy Turner  
Petroleum Engineering Technician

/kt  
Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Co., Inc.  
ADDRESS P.O. Box 607  
Roosevelt, UT 84066

OPERATOR ACCT. NO. N 3800

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A		12216	43-013-31896	Ute Tribal 30-15	SWSE	30	5S	3W	Duchesne	7-25-97	
WELL 1 COMMENTS: Tank Battery for all wells listed on this page. Entity previously added 9-11-97.											
A		12216	43-013-31908	Ute Tribal 30-14	SESW	30	5S	3W	Duchesne	9-8-97	
WELL 2 COMMENTS: Entity previously added 9-11-97.											
A	99999	12216	43-013-31897	Ute Tribal 30-16	SESE	30	5S	3W	Duchesne	8-10-97	
WELL 3 COMMENTS: Entity added 12-4-97 <i>for</i>											
A	99999	12216	43-013-31907	Ute Tribal 30-11	NESW	30	5S	3W	Duchesne	8-18-97	
WELL 4 COMMENTS: Entity added 12-4-97 <i>for</i>											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- D - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- B - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

A. Deanna Bell  
Signature  
Operations Coordinator  
Title  
12/1/97  
Date  
Phone No. 435-722-2531

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.  
**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)  
**1721' FSLand 2274' FWL  
NE SW Sec. 30 T5S R 3W**

**CONFIDENTIAL**

5. Lease Designation and Serial No.  
**14-20-H62-3511**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation  
**14-20-H62-4650**

8. Well Name and No.  
**Ute Tribal 30-11**

9. API Well No.  
**43-013-31907**

10. Field and Pool, or Exploratory Area  
**Antelope Creek**

11. County or Parish, State  
**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☒ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal Well # 30-11 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

**CONFIDENTIAL**

14. I hereby certify that the foregoing is true and correct

Signed Kathy Turner Title Petroleum Engineering Tech Date 12-16-97

(This space for Federal or State official use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE  
(See other instructions on  
reverse side)

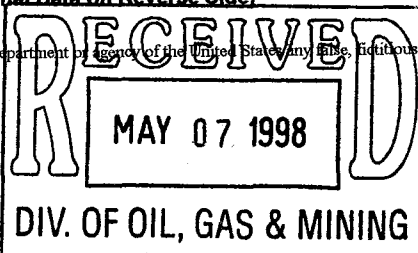
Form approved.  
Budget Bureau No. 1004-0137  
(Expires August 31, 1985)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. a. TYPE OF WELL: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3519	
b. TYPE OF COMPLETION: New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Reserv. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe	
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		7. UNIT AGREEMENT NAME 14-20-H62-4650	
3. ADDRESS OF OPERATOR P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531		8. FARM OR LEASE NAME Ute Indian Tribe	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1721' FSL 2274' FWL  At top prod. interval reported below  At total depth 6069' RTD		9. WELL NO. Ute Tribal 30-11	
10. FIELD AND POOL, OR WILDCAT Antelope Creek		11. SEC., T., R., M., OR BLOCK AND SURVEY OR ARBA Sec. 30-T5S-R3W	
12. COUNTY OR PARISH Duchesne		13. STATE Utah	
14. PERMIT NO. 43-013-31907		DATE ISSUED 7/11/97	
15. DATE SPUDDED 8/18/97		16. DATE T.D. REACHED 8/25/97	
17. DATE COMPLETED (Ready to prod.) 10/1/97		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6687'	
19. ELEV. CASINGHEAD 6667'		20. TOTAL DEPTH, MD & TVD 6069'	
21. PLUG BACK T.D., MD & TVD 6001'		22. IF MULTIPLE COMPL., HOW MANY* 7	
23. INTERVALS DRILLED BY ROTARY TOOLS		CABLE TOOLS	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)* Green River (same as perforations listed below)		25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron Litho Density w/ Gamma Ray, AIT		27. WAS WELL CORED	
28. CASING RECORD (Report all strings set in well)			
Casing Size		Weight, lb./ft.	
8-5/8"		24	
5-1/2"		15.5	
Depth Set (MD)		Hole Size	
265'		12-1/4"	
6047'		7-7/8"	
Cementing Record		Amount Pulled	
165 sxs Type 5			
280 sxs Highfill			
360 sxs Thixotropic			
29. LINER RECORD			
Size		Top	
Bottom (MD)		Sacks Cement*	
Screen (MD)		30. TUBING RECORD	
Size		Depth Set (MD)	
2-7/8"		5311'	
Packer Set (MD)			
31. PERFORATION RECORD (Interval, size and number)			
CONFIDENTIAL			
D3.1 1600-16' (16 holes)			
D3.3 5071-79' (32 holes)			
C6.2 4934-44' (40 holes)			
C6.1 4820-32' (48 holes)			
C5.2 4722-27' (20 holes)			
B11 4433-39' (24 holes)			
B6.2 4710-98' (32 holes)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Depth Interval (MD)		Amount and Kind of Material Used	
5216-20'		6405 gal Boragel, 29000# 20/40 prop	
5071-79'		7550 gal Boragel, 42500# 20-40 prop	
4934-44'		5670 gal Boragel, 29500# 20/40 prop	
4820-32'		10600 gal Boragel, 60000# 20/40 prop	
4722-27'		6293 gal Boragel, 30000# 20/40 prop cont'd	
33. PRODUCTION			
Date First Production 10/17/97		Production Method (Flowing, gas lift, pumping - size and type of pump) 2-1/2" x 1-3/4" x 16' 40 ring RHAC pump	
Well Status (Producing or shut-in) Producing			
Date of Test 10/21/97		Hours Tested 24	
Choke Size		Prod'n for Test Period	
Oil - BBL. 38		Gas - MCF. 0	
Water - BBL. 22		Gas-Oil Ratio	
Flow. Tubing Press.		Casing Pressure 1000	
Calculated 24 Hr. Rate		Oil - BBL.	
Gas - MCF.		Water - BBL.	
Oil Gravity - API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY Dave Schreiner			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
B Marker	4006	CONFIDENTIAL				
X Marker	4484					
Y Marker	4520					
Douglas Creek	4624					
B Limestone	5002					
Castle Peak	5550					
Basal Carbonate	6092					

38. GEOLOGIC MARKERS

WELL COMPLETION

CONTINUED

UTE TRIBAL 30-11

CONFIDENTIAL

32.

4433-39'	5932 gal Boragel, 27500# 20/40 prop
4190-98'	7092 gal Boragel, 42400# 20/40 prop

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. 1420H623519
2. Name of Operator PETROGLYPH OPERATING COMPANY,		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066		7. If Unit or CA/Agreement, Name and/or No. 1420H624650
3b. Phone No. (include area code) Ph: 435.722.2531 Fx: 435.722.9145		8. Well Name and No. UTE TRIBAL 30-11
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T5S R3W NESW 1721FSL 2274FWL		9. API Well No. 43-013-31907
		10. Field and Pool, or Exploratory ANTELOPE CREEK
		11. County or Parish, and State DUCHESNE COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well was reperforated and Acidize on 11/29/2001 and returned to production on 12/3/2001.

Zones Perforated  
5086 to 5089, 4816 to 4838 with 4 spf  
Zones Acidize  
5071 to 5089 treated with 750 gallons 15% HCL and additives.  
4934 to 4944 treated with 500 gallons 15% HCL and additives  
4816 to 4838 treated with 1500 gallons 15% HCL and additives  
4433 to 4439 treated with 500 gallons 15% HCL and additives  
4190 to 4198 treated with 400 gallons 15% HCL and additives

**RECEIVED**

MAR 13 2002

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #10701 verified by the BLM Well Information System For PETROGLYPH OPERATING COMPANY,, sent to the Vernal</b>	
Name (Printed/Typed) MICHEAL SAFFORD	Title COORDINATOR
Signature (Electronic Submission)	Date 03/07/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**Additional data for EC transaction #10701 that would not fit on the form**

**32. Additional remarks, continued**

Then treated well with 110 gallons Gypton T-229 (Champion Technologies), 220 gallons methanol, in 20 bbls water, followed with 30 bbls water. They then shut-in the tubing and injected 45 bbls water down the casing at 500 pounds at a rate of 4 bpm. Then reversed and injected 45 bbls water down the tubing and at 1500 pounds at a rate of 3 bpm. The well was returned to production on 12/3/2001.